

**Notice of Allowability**

Application No.

09/493,904

Examiner

Bunjoo Jaroenchonwanit

Applicant(s)

WU ET AL.

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE ands amendment filed 04/30.
2. ☒ The allowed claim(s) is/are 1,2,4-15 and 17-27.
3. ☒ The drawings filed on 11/15/00 89 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

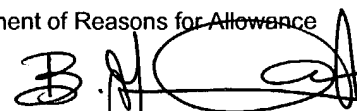
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 043004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.



Bunjoo Jaroenchonwanit  
Primary Examiner  
Art Unit: 2143

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stanley D. Ference III on 07/08/04.

2. The application has been amended as follows:

- 1. Method of selecting a proxy cache, said method comprising the steps of:  
defining a plurality of proxy caches into which a URL is capable of being hashed;  
identifying a candidate set of proxy caches, wherein said identifying comprises:  
hashing the URL into an anchor hash partition in a hashing space;  
forming a candidate set of hash partitions by including one or more nearby  
partitions in the hashing space into said anchor hash partition;  
mapping each partition to a proxy cache; and  
selecting a proxy cache from the candidate set at least on the basis of latency.

8. The method according to Claim 1, wherein the nearby partitions comprise partitions with hash values greater than that of the anchor partition.

9. The method according to Claim 1, wherein the nearby partitions comprise partitions with hash values less than that of the anchor partition.

10. The method according to Claim 1, wherein the nearby partitions comprise partitions with hash values both greater and less than that of the anchor partition.

11. The method according to Claim 1, wherein said mapping step comprises hashing each hash partition into a number between 1 and  $P$ , wherein  $P$  represents the total number of proxies.

12. The method according to Claim 1, wherein said mapping step further comprises:

for each proxy, generating  $N/P$  random numbers between 0 and 1, wherein  $N$  represents the total number of hash partitions and  $\#$  represents the total number of proxies;

generating a proxy list by sorting the corresponding  $N$  random numbers generated; and  
assigning each hash partition to one proxy based on the sorted proxy list.

27. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for selecting a proxy cache, said method steps comprising:

defining a plurality of proxy caches into which a URL is capable of being hashed;

identifying a candidate set of proxy caches, wherein said identifying comprises:

hashing the URL into an anchor hash partition in a hashing space;

forming a candidate set of hash partitions by including one or more nearby partitions in the hashing space into said anchor hash partition;

mapping each partition to a proxy cache; and

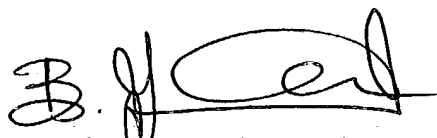
selecting a proxy cache from the candidate set at least on the basis of latency. —

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bunjob Jaroenchonwanit whose telephone number is (703) 305-9673. The examiner can normally be reached on 8:00-17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Bunjob Jaroenchonwanit  
Primary Examiner  
Art Unit 2143

/bj  
7/8/04